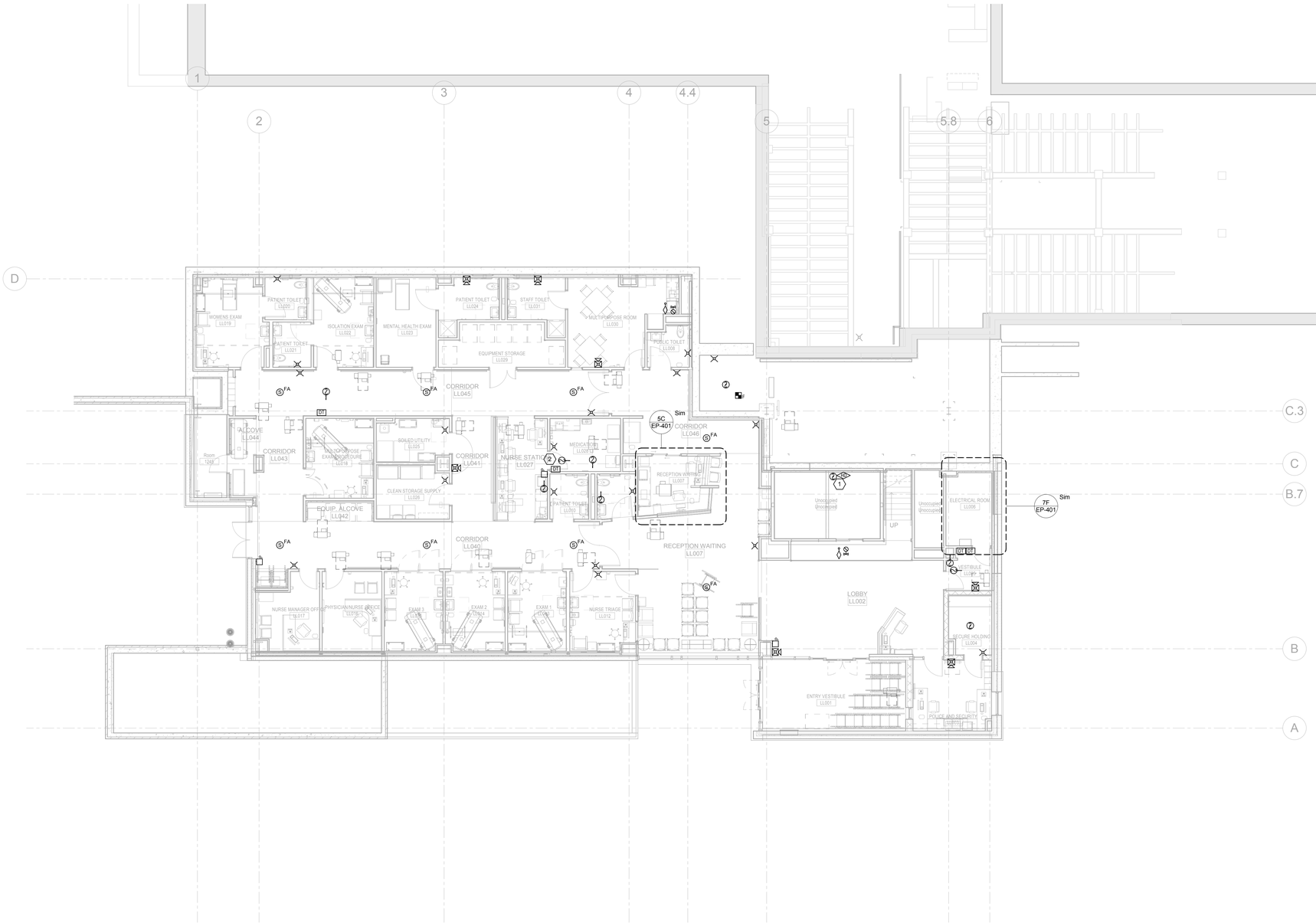
GENERAL NOTES:

1.
FIRE ALARM DEVICES SHALL BE TIE BACK TO EXISTING FACP LOCATED ON THE GROUND LEVEL OF THE EXISTING BLDG. REFER TO ES-101 FOR APPROXIMATE LOCATION.

KEYED NOTES ⬡ :

1.
PROVIDE HEAT AND SMOKE DETECTOR WITHIN 2' OF SPRINKLER HEAD IN ELEVATOR PIT. HEAT DETECTOR WIRED FOR ELEVATOR SHUTDOWN, SMOKE DETECTOR PROGRAMMED FOR ELEVATOR RECALL.

2.
PROVIDE SEPARATE TEST STATION IN THIS LOCATION FOR EACH DUCT DETECTOR AT SHAFT. COORDINATE WITH MECHANICAL DRAWINGS.



3F LOWER LEVEL FIRE ALARM PLAN
1/8" = 1'-0"

NORTH ARROW

CONSTRUCTION DOCUMENTS - FINAL BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

Landmark Engineering Group, Inc.
Civil Engineer
2834 104th Street
Urbandale, IA 50322
515.221.1322

Gateway Geotechnical, LLC
Geotechnical Engineer
17736 Edison Avenue
Chesterfield, MO 63005
636.532.7747

SWT Design
Landscape Architect
7722 Big Bend Boulevard
St. Louis, MO 63119
314.644.5700

Hinman Consulting Engineers, Inc
Physical Security
One Bush Street, Suite 510
San Francisco, CA 94104
415.621.4423

The Schachinger Group
Elevator
4255 Stoney Creek Drive
Fort Collins, CO 80525
703.608.2263

SidePlate
Steel Frame
25909 Pala, Ste 200, 92691
Mission Viejo, CA
949.305.7889

ARCHITECT/ENGINEERS:

CANNONDESIGN

Drawing Title: **LOWER LEVEL FIRE ALARM PLAN**

Approved: Project Director

Project Title: **John J. Pershing VAMC Clinical & Urgent Care Addition**

Location: **Poplar Bluff, Missouri**

Date: **DEC 14, 2015** | Checked: **TZ** | Drawn: **AW/CK**

Project Number: **657-351**
CANNON DESIGN PROJECT NO. 03850.05

Building Number

Drawing Number: **FA-101**
Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

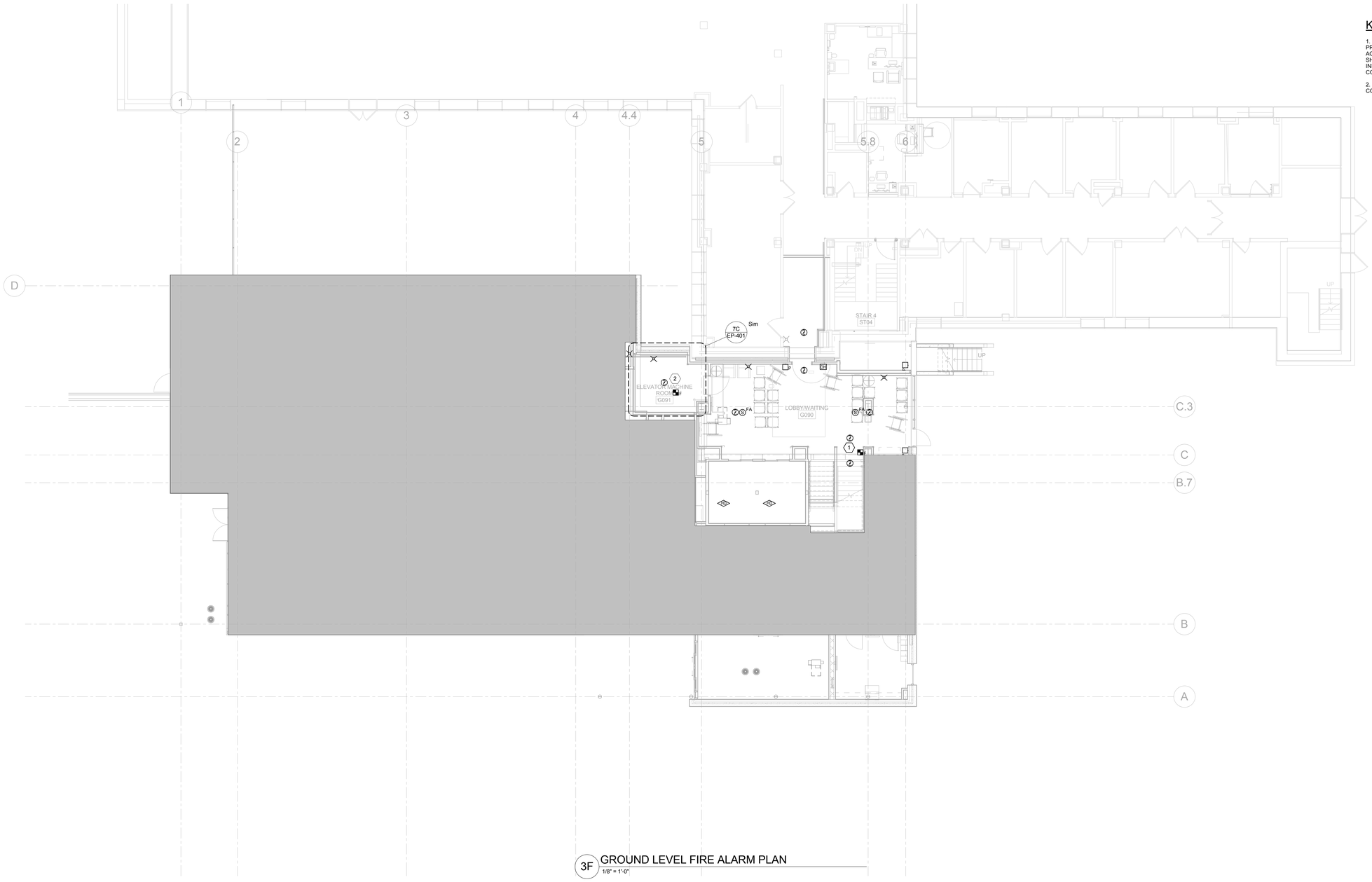
GENERAL NOTES:

1.
FIRE ALARM DEVICES SHALL BE TIE BACK TO EXISTING FACP LOCATED ON THE GROUND LEVEL OF THE EXISTING BLDG. REFER TO ES-101 FOR APPROXIMATE LOCATION.

KEYED NOTES ⬡ :

1.
PROVIDE RELAY CONNECTIONS TO FIRE ALARM SYSTEM TO MONITOR POSITION AND ACTIVATION OF SMOKE CURTAIN. ADDITIONALLY, PROVIDE DEDICATED SMOKE DETECTORS AS SHOWN ON BOTH SIDES OF DOOR FOR ACTIVATION UPON FIRE CONDITION. COORDINATE INSTALLATION WITH ARCHITECT TO ENSURE CEILING ACCESSIBILITY TO REQUIRED COMPONENTS WITH SOFFIT. REFER TO EP-102 FOR ADDITIONAL DETAILS.

2.
COORDINATE ELEVATOR SHUTDOWN WIRING WITH ELEVATOR INSTALLER.



3F GROUND LEVEL FIRE ALARM PLAN
1/8" = 1'-0"

NORTH ARROW

CONSTRUCTION DOCUMENTS - FINAL BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

Landmark Engineering Group, Inc.
Civil Engineer
2834 104th Street
Urbandale, IA 50322
515.221.1322

Gateway Geotechnical, LLC
Geotechnical Engineer
17736 Edison Avenue
Chesterfield, MO 63005
636.532.7747

SWT Design
Landscape Architect
7722 Big Bend Boulevard
St. Louis, MO 63119
314.644.5700

Hinman Consulting Engineers, Inc
Physical Security
One Bush Street, Suite 510
San Francisco, CA 94104
415.621.4423

The Schachinger Group
Elevator
4255 Stoney Creek Drive
Fort Collins, CO 80525
703.608.2263

SidePlate
Steel Frame
25909 Pala, Ste 200, 92691
Mission Viejo, CA
949.305.7889

ARCHITECT/ENGINEERS:

CANNONDESIGN

Drawing Title: **GROUND LEVEL FIRE ALARM PLAN**

Approved: Project Director

Project Title: **John J. Pershing VAMC Clinical & Urgent Care Addition**

Location: **Poplar Bluff, Missouri**

Date: **DEC 14, 2015** | Checked: **TZ** | Drawn: **AW/CK**

Project Number: **657-351**
CANNON DESIGN PROJECT NO. 03850.05

Building Number:

Drawing Number: **FA-102**
Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

GENERAL NOTES:

1.
FIRE ALARM DEVICES SHALL BE TIE BACK TO EXISTING FACP LOCATED ON THE GROUND LEVEL OF THE EXISTING BLDG. REFER TO ES-101 FOR APPROXIMATE LOCATION.

KEYED NOTES ⎔ :

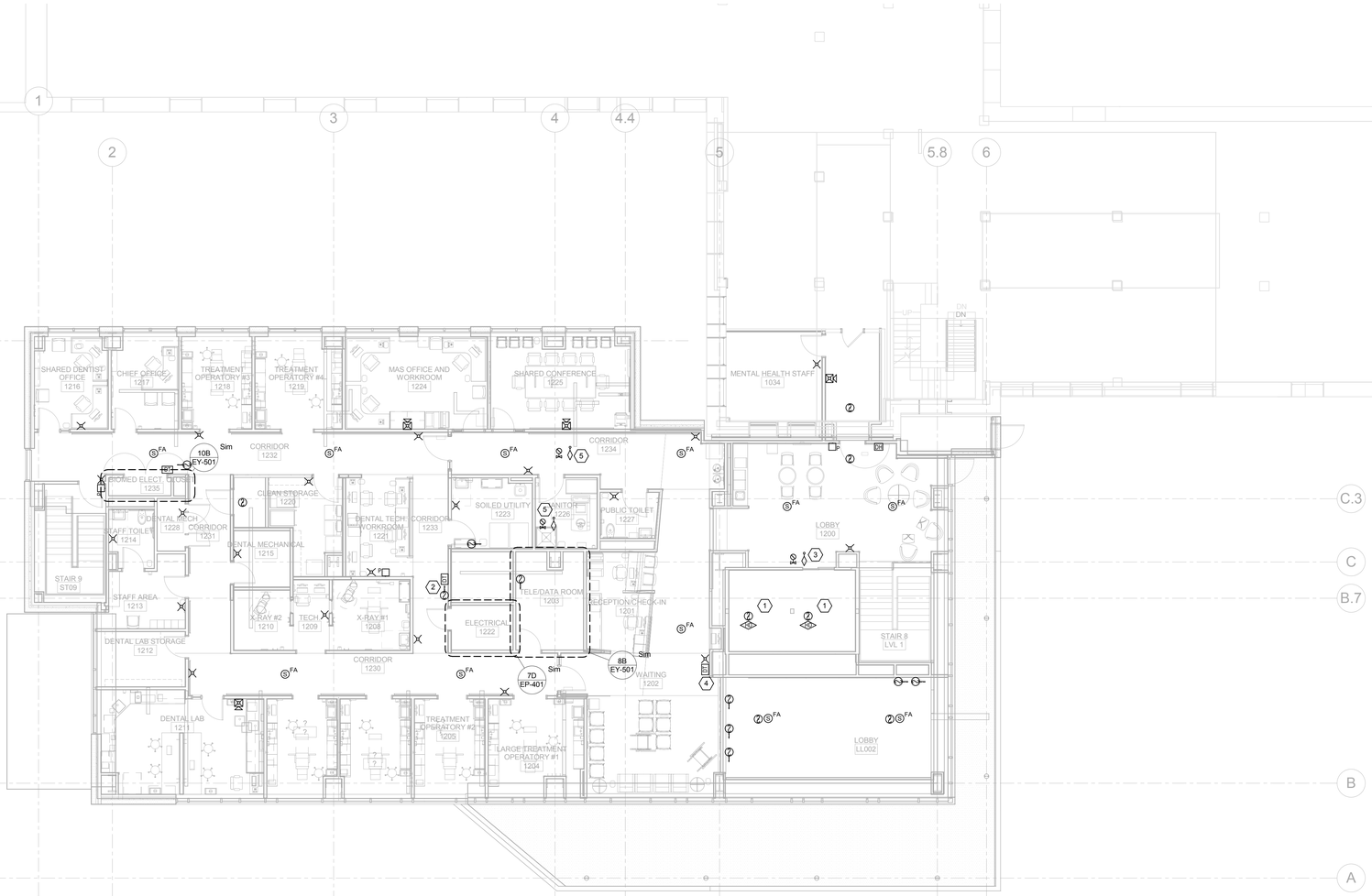
1.
INSTALL SMOKE AND HEAT DETECTOR WITHIN 2' OF SPRINKLER HEAD. IF HOISTWAY IS NOT REQUIRED TO BE SPRINKLED FROM THE TOP, THESE DEVICES SHALL NOT BE INSTALLED.

2.
INSTALL SEPARATE TEST STATION IN THIS LOCATION FOR EACH DUCT DETECTOR AT SHAFT. COORDINATE WITH MECHANICAL DRAWINGS.

3.
INSTALL FLOW AND TAMPER SWITCH ON THIS LEVEL ONLY IF HOISTWAY IS REQUIRED TO BE SPRINKLED FROM THE TOP.

4.
PROVIDE SEPARATE TEST STATION IN THIS LOCATION FOR EACH DUCT DETECTOR SHOWN IN LOBBY. COORDINATE WITH MECHANICAL DRAWINGS.

5.
COORDINATE FINAL LOCATIONS WITH FIRE SUPPRESSION CONTRACTOR.



3F LEVEL 01 FIRE ALARM PLAN
1/8" = 1'-0"

NORTH ARROW

CONSTRUCTION DOCUMENTS - FINAL BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

Landmark Engineering Group, Inc.
Civil Engineer
2834 104th Street
Urbandale, IA 50322
515.221.1322

Gateway Geotechnical, LLC
Geotechnical Engineer
17736 Edison Avenue
Chesterfield, MO 63005
636.532.7747

SWT Design
Landscape Architect
7722 Big Bend Boulevard
St. Louis, MO 63119
314.644.5700

Hinman Consulting Engineers, Inc
Physical Security
One Bush Street, Suite 510
San Francisco, CA 94104
415.621.4423

The Schachinger Group
Elevator
4255 Stoney Creek Drive
Fort Collins, CO 80525
703.608.2263

SidePlate
Steel Frame
25909 Pala, Ste 200, 92691
Mission Viejo, CA
949.305.7889

ARCHITECT/ENGINEERS:

CANNONDESIGN

Drawing Title: **LEVEL 01 FIRE ALARM PLAN**

Approved: Project Director

Project Title: **John J. Pershing VAMC Clinical & Urgent Care Addition**

Location: **Poplar Bluff, Missouri**

Date: **DEC 14, 2015** | Checked: **TZ** | Drawn: **AW/CK**

Project Number: **657-351**
CANNON DESIGN PROJECT NO. 03850.05

Building Number

Drawing Number: **FA-103**
Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

GENERAL NOTES:

1.
FIRE ALARM DEVICES SHALL BE TIE BACK TO EXISTING FACP LOCATED ON THE GROUND LEVEL OF THE EXISTING BLDG. REFER TO ES-101 FOR APPROXIMATE LOCATION.

KEYED NOTES ⎔ :

1.
INSTALL SMOKE AND HEAT DETECTOR WITHIN 2' OF SPRINKLER HEAD. IF HOISTWAY IS NOT REQUIRED TO BE SPRINKLED FROM THE TOP, THESE DEVICES SHALL NOT BE INSTALLED.

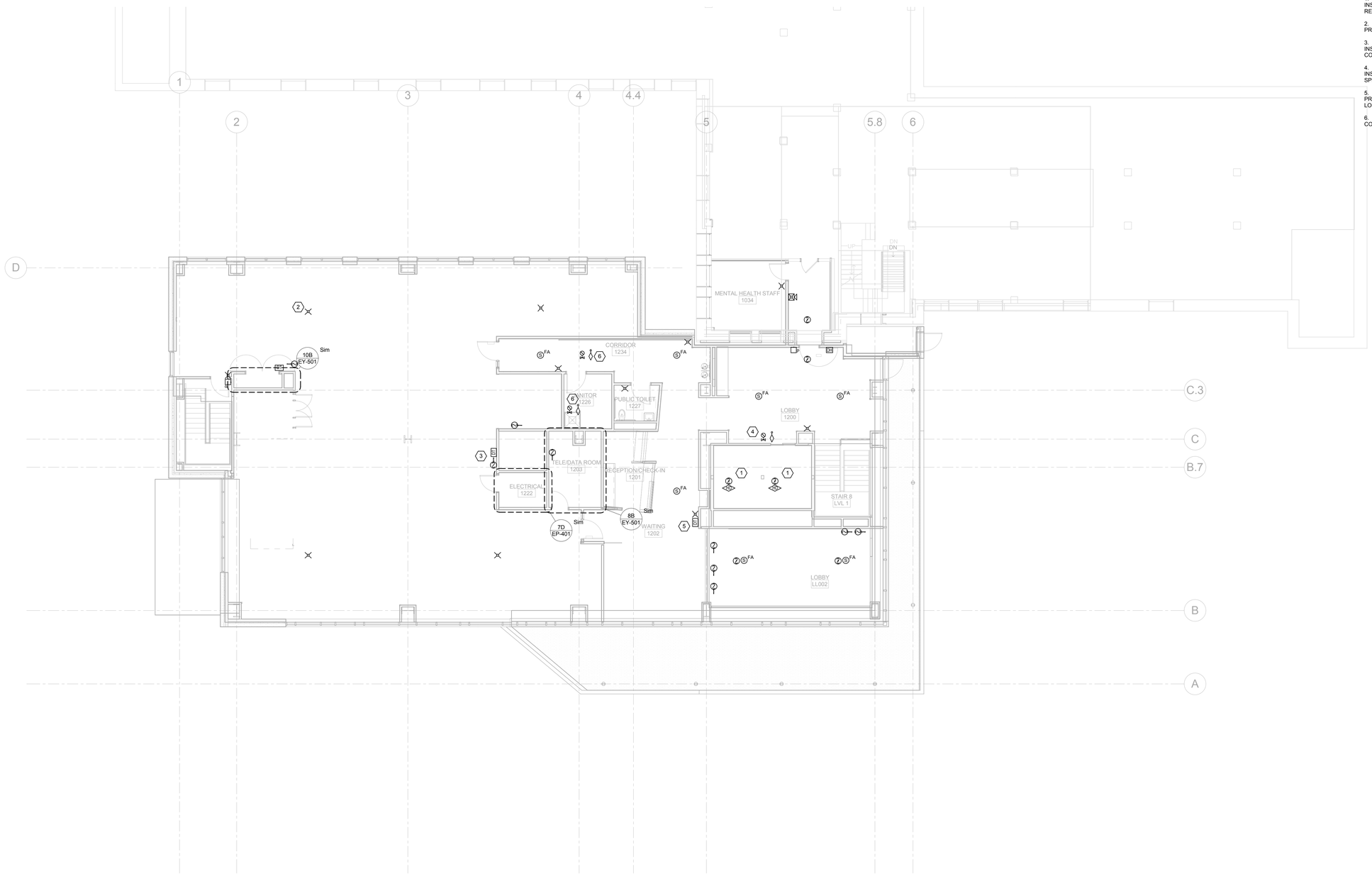
2.
PROVIDE 135 CANDELA STROBE MOUNTED TO STRUCTURE AS SHOWN. TYPICAL.

3.
INSTALL SEPARATE TEST STATION IN THIS LOCATION FOR EACH DUCT DETECTOR AT SHAFT. COORDINATE WITH MECHANICAL DRAWINGS.

4.
INSTALL FLOW AND TAMPER SWITCH ON THIS LEVEL ONLY IF HOISTWAY IS REQUIRED TO BE SPRINKLED FROM THE TOP.

5.
PROVIDE SEPARATE TEST STATION IN THIS LOCATION FOR EACH DUCT DETECTOR SHOWN IN LOBBY. COORDINATE WITH MECHANICAL DRAWINGS.

6.
COORDINATE FINAL LOCATIONS WITH FIRE SUPPRESSION CONTRACTOR.



4F LEVEL 01 FIRE ALARM PLAN
1/8" = 1'-0"

CONSTRUCTION DOCUMENTS - FINAL BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

Landmark Engineering Group, Inc.
Civil Engineer
2834 104th Street
Urbandale, IA 50322
515.221.1322

Gateway Geotechnical, LLC
Geotechnical Engineer
17736 Edison Avenue
Chesterfield, MO 63005
636.532.7747

SWT Design
Landscape Architect
7722 Big Bend Boulevard
St. Louis, MO 63119
314.644.5700

Hinman Consulting Engineers, Inc
Physical Security
One Bush Street, Suite 510
San Francisco, CA 94104
415.621.4423

The Schachinger Group
Elevator
4255 Stoney Creek Drive
Fort Collins, CO 80525
703.608.2263

SidePlate
Steel Frame
25909 Pala, Ste 200, 92691
Mission Viejo, CA
949.305.7889

ARCHITECT/ENGINEERS:

CANNONDESIGN

Drawing Title
LEVEL 01 FIRE ALARM PLAN - BID ALTERNATE #1

Approved: Project Director

Project Title
John J. Pershing VAMC Clinical & Urgent Care Addition

Location
Poplar Bluff, Missouri

Date **DEC 14, 2015** | Checked **TZ** | Drawn **AW**

Project Number **657-351**
CANNON DESIGN PROJECT NO. 03850.05

Building Number

Drawing Number
FA-103A
Dwg. of

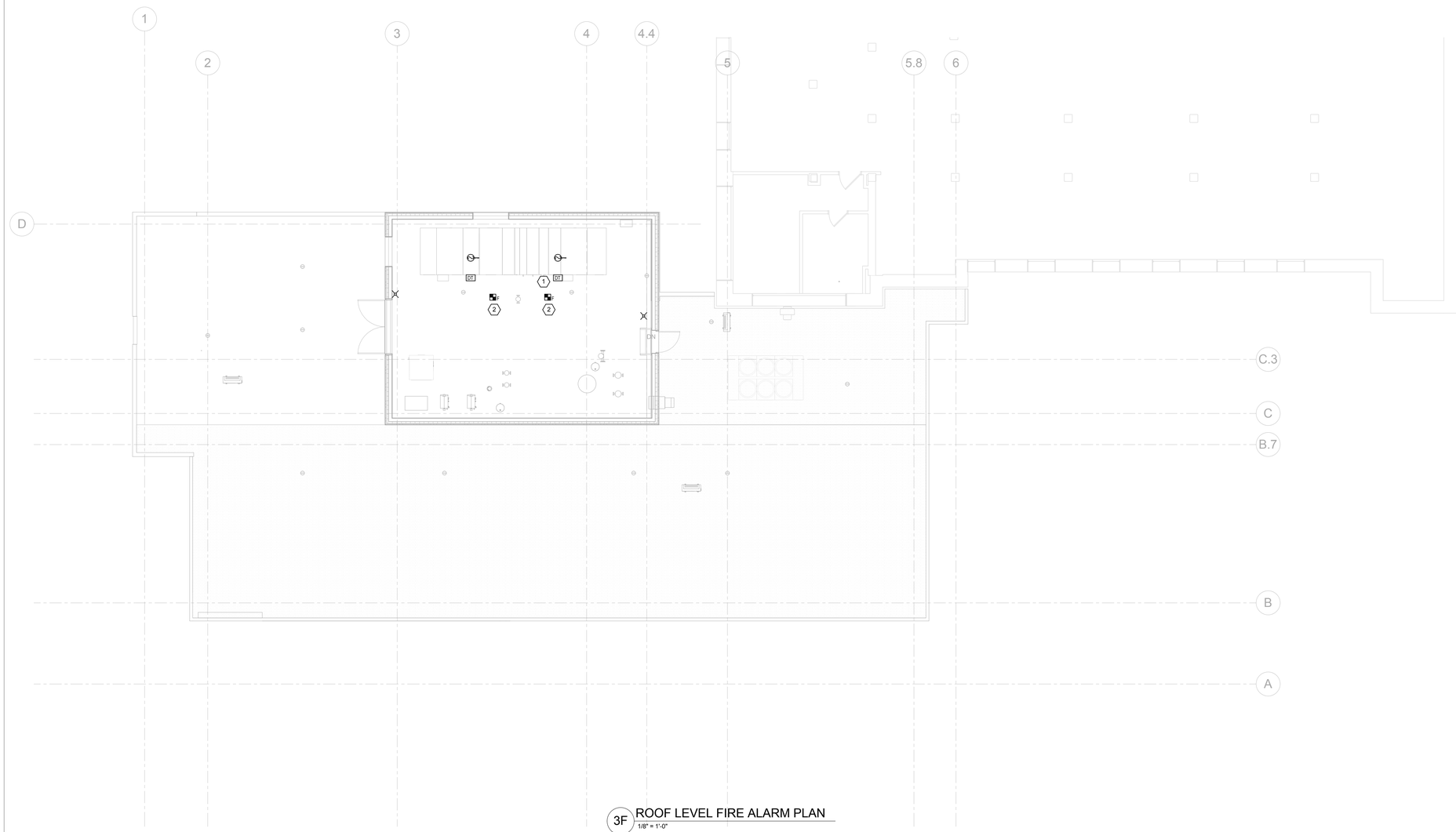
Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

KEYED NOTES ⬡:

1.
PROVIDE DUCT SMOKE DETECTOR IN MAIN SUPPLY AND RETURN DUCT FROM AHU. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION.

2.
FAN SHUTDOWN AND MONITORING RELAYS PER VFD. COORDINATE WITH MECHANICAL DRAWINGS.



3F ROOF LEVEL FIRE ALARM PLAN
1/8" = 1'-0"

NORTH ARROW

CONSTRUCTION DOCUMENTS - FINAL BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

Landmark Engineering Group, Inc.
Civil Engineer
2834 104th Street
Urbandale, IA 50322
515.221.1322

Gateway Geotechnical, LLC
Geotechnical Engineer
17736 Edison Avenue
Chesterfield, MO 63005
636.532.7747

SWT Design
Landscape Architect
7722 Big Bend Boulevard
St. Louis, MO 63119
314.644.5700

Hinman Consulting Engineers, Inc
Physical Security
One Bush Street, Suite 510
San Francisco, CA 94104
415.621.4423

The Schachinger Group
Elevator
4255 Stoney Creek Drive
Fort Collins, CO 80525
703.608.2263

SidePlate
Steel Frame
25909 Pala, Ste 200, 92691
Mission Viejo, CA
949.305.7889

ARCHITECT/ENGINEERS:

CANNONDESIGN

Drawing Title: **ROOF LEVEL FIRE ALARM PLAN**

Approved: Project Director

Project Title: **John J. Pershing VAMC Clinical & Urgent Care Addition**

Location: **Poplar Bluff, Missouri**

Date: **DEC 14, 2015** | Checked: **TZ** | Drawn: **AW/CK**

Project Number: **657-351**
CANNON DESIGN PROJECT NO. 03850.05

Building Number

Drawing Number: **FA-104**
Dwg. of

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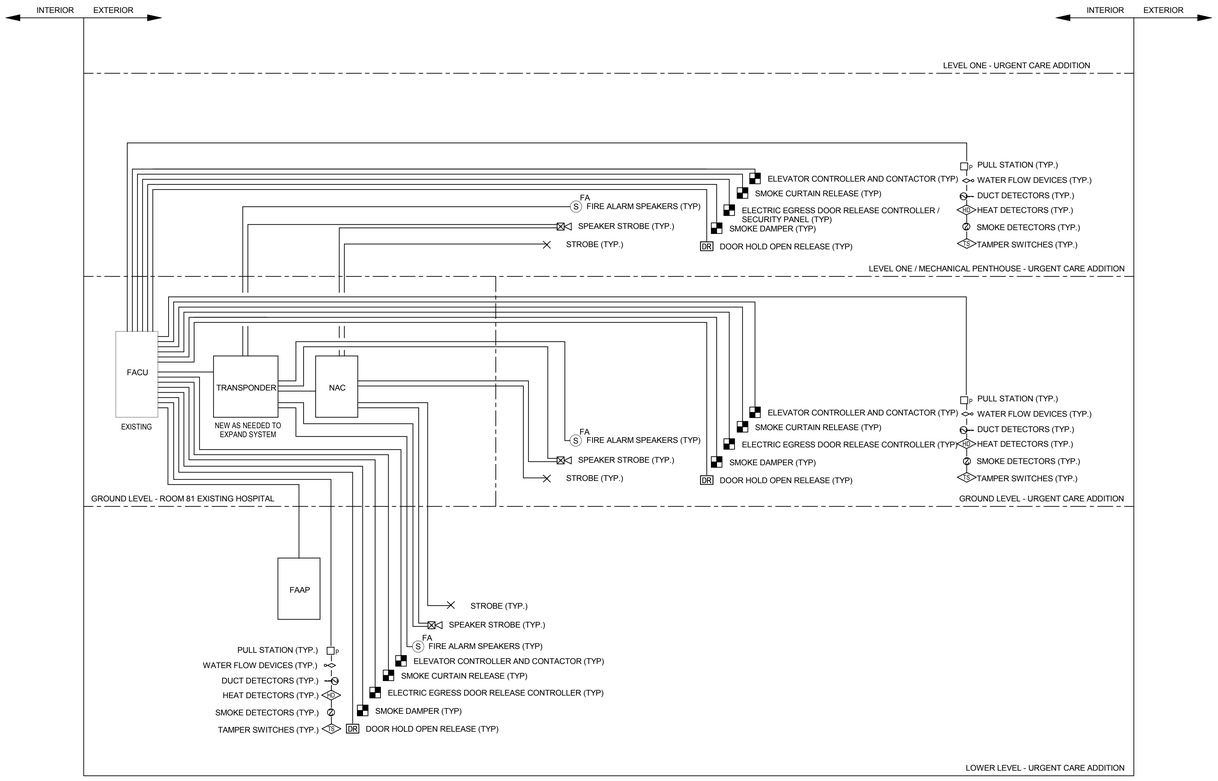
Department of Veterans Affairs

VA FORM 08-6231



1 FIRE ALARM RISER DIAGRAM

KEYED NOTES :

1.
FIRE ALARM SYSTEM SMOKE DETECTOR - TYPICAL.

2.
FIRE PROTECTION SYSTEM SPRINKLER HEAD - TYPICAL.

3.
FIRE ALARM SYSTEM COMBINATION RATE OF RISE/FIXED TEMPERATURE HEATDETECTOR(S). - TYPICAL. INSTALL WITHIN 2' OF SPRINKLER HEAD.

4.
FIRE PROTECTION SYSTEM SPRINKLER FLOW SWITCH & SUPERVISORY TAMPER SWITCH.

5.
FIRE ALARM SYSTEM CONNECTION TO SPRINKLER FLOW & SUPERVISORY TAMPER SWITCH.

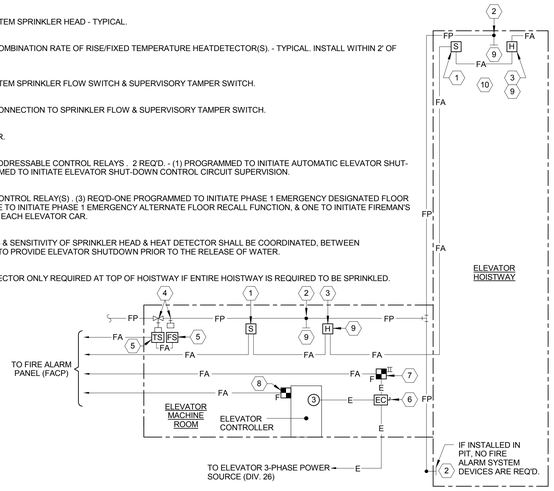
6.
ELEVATOR CONTACTOR.

7.
FIRE ALARM SYSTEM ADDRESSABLE CONTROL RELAYS . 2 REQ'D. - (1) PROGRAMMED TO INITIATE AUTOMATIC ELEVATOR SHUT-DOWN, & (1) PROGRAMMED TO INITIATE ELEVATOR SHUT-DOWN CONTROL CIRCUIT SUPERVISION.

8.
FIRE ALARM SYSTEM CONTROL RELAY(S) . (3) REQ'D-ONE PROGRAMMED TO INITIATE PHASE 1 EMERGENCY DESIGNATED FLOOR RECALL FUNCTION-ONE TO INITIATE PHASE 1 EMERGENCY ALTERNATE FLOOR RECALL FUNCTION, & ONE TO INITIATE FIREMAN'S HAT" VISUAL SIGNAL IN EACH ELEVATOR CAR.

9.
TEMPERATURE RATING & SENSITIVITY OF SPRINKLER HEAD & HEAT DETECTOR SHALL BE COORDINATED, BETWEEN DESIGNER/ENGINEER, TO PROVIDE ELEVATOR SHUTDOWN PRIOR TO THE RELEASE OF WATER.

10.
SMOKE AND HEAT DETECTOR ONLY REQUIRED AT TOP OF HOISTWAY IF ENTIRE HOISTWAY IS REQUIRED TO BE SPRINKLED.



LEGEND

FP — FIRE PROTECTION SPRINKLER PIPING (DIVISION 23).

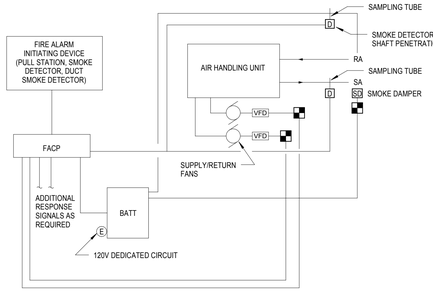
FA — FIRE ALARM WIRING (DIVISION 26).

E — POWER WIRING (DIVISION 26).

2 ELEVATOR/FIRE ALARM RISER DETAIL

FIRE ALARM CONTROL BY EVENT SCHEDULE

EVENT (DEVICE ACTIVATED)	CONTROLLED RESPONSES: TRANSMIT ALARM TO FIRE DEPARTMENT	TRANSMIT ALARM TO STAFF VIA ANNUCIATORS	SOUND ALL AUDIBLE ALARMS PER SPEC	ACTIVATE ALL VISUAL ALARMS	INDICATE TIME & EVENT ON SYSTEM PRINTER	RELEASE AHUS FROM FIRE AND SMOKE DOORS	RELEASE SECURITY DOOR LOCKS	SHUT DOWN AHU SUPPLY AND RETURN FANS	NOTIFY HVAC CONTL SYSTEM VIA CONTACT	RELEASE FIRE & SMOKE SHUTTERS	CAPTURE ALL ELEVATORS & RETURN TO ALTERNATE FLOOR LEVEL	CAPTURE ELEVATORS & RETURN TO APPROVED LEVEL	OPEN ELEVATOR FEEDER CONTACTOR	ACTIVATE ASSOCIATED STAIR'S STATION	CLOSE DAMPER PROXIMATE TO DETECTOR	TRANSMIT TROUBLE SIGNAL TO STAFF VIA ANNUCIATORS
GENERAL																
SPRINKLER WATERFLOW SWITCH	X	X	X	X	X	X	X	X	X							
SMOKE DETECTOR	X	X	X	X	X	X	X	X	X							
HEAT DETECTOR	X	X	X	X	X	X	X	X	X							
DUCT TYPE SMOKE DETECTOR					X			X	X							X
MANUAL PULL STATION	X	X	X	X	X	X	X	X								
LOCAL AUTOMATIC DETECTORS	X	X	X	X	X	X	X	X	X	X				X		
LOCAL SPRINKLER WATERFLOW SWITCH	X	X	X	X	X	X	X	X	X							
AIR HANDLING EQUIPMENT																
AHU SUPPLY DUCT TYPE SMOKE DETECTOR					X			X	X							X
SMOKE DAMPER DUCT TYPE SMOKE DETECTOR					X			X	X							X
ELEVATOR EQUIPMENT																
ELEVATOR GROUND/ LEVEL 01 SMOKE DETECTOR	X	X	X	X	X	X	X	X	X		X					
ELEVATOR SHAFT SMOKE DETECTOR	X	X	X	X	X	X	X	X	X		X			X		
ELEVATOR MACHINE ROOM SMOKE DETECTOR	X	X	X	X	X	X	X	X	X		X			X		
LOWER LEVEL ELEV LOBBY SMOKE DETECTOR	X	X	X	X	X	X	X	X	X			X				
ELEVATOR SHAFT HEAT DETECTOR	X	X	X	X	X	X	X	X	X				X	X		
ELEVATOR MACHINE ROOM HEAT DETECTOR	X	X	X	X	X	X	X	X	X				X	X		
STAIR DETECTION																
STAIR SMOKE DETECTOR	X	X	X	X	X	X	X									
SUPERVISORY OPERATIONS																
CENTRAL CONTROL EQUIPMENT DOOR OPEN					X											X
SPRINKLER VALVE TAMPER SWITCH					X											X
ELEVATOR CONTACTOR LOSS OF VOLTAGE					X											X
SUPERVISED DEVICE/WIRING DISARRANGEMENT					X											X
FIRE PUMP RUNNING					X											X
FIRE PUMP POWER LOSS					X											X
FIRE PUMP PHASE REVERSAL					X											X



4 FIRE ALARM HVAC SHUTDOWN SCHEMATIC

SEQUENCE OF OPERATION

1.
UPON DETECTION OF SMOKE IN THE DUCTWORK AT THE AHU / OR RETURN AIR DUCT DETECTORS, THE ADDRESSABLE FIRE ALARM CONTROL DEVICE(S) (SMOKE DETECTOR(S)) SENDS SIGNAL TO THE FIRE ALARM CONTROL PANEL OR FIELD PROCESSING UNIT (FPU).

2.
TO INITIATE FAN SHUT-DOWN:
A. THE FIRE ALARM CONTROL PANEL SENDS ANALOG STOP SIGNAL (CONTACT CLOSURE) TO THE FAN STARTER/VFD - SEPARATE SIGNALS FOR EACH FAN.
B. STARTER/VFD RE-SET AT THE CONTROLLER OR THROUGH THE BAS. AFTER FACP HAS BEEN EXTINGUISHED AND CONTACTOR OPENS.

3.
TO INITIATE SMOKE DAMPER CLOSURE:
A. SMOKE DAMPERS POWERED VIA A 24V CENTRAL POWER SUPPLY / FIRE ALARM NAC PANEL.
B. SMOKE DAMPER POWER WIRED THROUGH FIRE ALARM CONTROL MODULE.
C. UPON DETECTION OF SMOKE, THE FIRE ALARM CONTROL UNIT BREAKS POWER TO THE SMOKE DAMPER AND CAUSES IT TO CLOSE.
D. SMOKE DAMPER BY RESETTING THROUGH FACP.
E. SMOKE DAMPER POSITION IS MONITORED BY THE BUILDING AUTOMATION SYSTEM VIA INTEGRAL END SWITCH.

CONSTRUCTION DOCUMENTS - FINAL BID DOCUMENTS

Revisions: | Date

CONSULTANTS:

Landmark Engineering Group, Inc.
Civil Engineer
2834 104th Street
Urbandale, IA 50322
515.221.1322

Gateway Geotechnical, LLC
Geotechnical Engineer
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Hinman Consulting Engineers, Inc
Physical Security
One Bush Street, Suite 510
San Francsco, CA 94104
415.621.4423

The Schachinger Group
Elevator
4255 Stoney Creek Drive
Fort Collins, CO 80525
703.608.2263

SidePlate
Steel Frame
25909 Pala, Ste 200, 92691
Mission Viejo, CA
949.305.7889

ARCHITECT/ENGINEERS:

CANNONDESIGN

Drawing Title: **FIRE ALARM RISER DIAGRAM**

Approved: Project Director

Project Title: **John J. Pershing VAMC Clinical & Urgent Care Addition**

Location: **Poplar Bluff, Missouri**

Date: **DEC 14, 2015** | Checked: **TZ** | Drawn: **AW/CK**

Project Number: **657-351**
CANNON DESIGN PROJECT NO. 03850.05

Building Number

Drawing Number: **FA-601**
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VA FORM 08-6231

2A FIRE PROTECTION SEISMIC CODE BLOCK

MECHANICAL AND PLUMBING EQUIPMENT COMPONENTS
EARTHQUAKE LOAD RESISTANCE

OCCUPANCY CATEGORY (IV) **SEISMIC DESIGN CATEGORY (D)**

LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS			COMMENTS
					ON CONST. DOCUMENTS	SUBSEQUENT SUBMITTAL		
	NOT PROVIDED FOR PROJECT	PROVIDED FOR PROJECT	NOT PROVIDED FOR PROJECT	PROVIDED FOR PROJECT	DRAWING NO. OR SPEC. SECTION	SHOP DRAWINGS	SEPARATE PERMIT & PLANS	
FIRE PROTECTION, DETECTION & ALARM EQUIPMENT & SYSTEM COMPONENTS; I_p = 1.5								
FIRE SPRINKLER PIPING		X		X			X	

5A DEMOLITION NOTES

1. DEMOLITION INFORMATION SHOWN ON THE DRAWINGS IS BASED ON SHOP DRAWINGS AND A PRELIMINARY REVIEW OF THE EXISTING CONDITIONS. PERFORM ALL WORK OF A DEMOLITION NATURE THAT MAY BE REQUIRED OR NECESSARY FOR A FULL AND COMPLETE EXECUTION OF THE WORK, WHETHER OR NOT SHOWN OR SPECIFIED. THE EXACT EXTENT OF DEMOLITION MAY NOT BE FULLY INDICATED ON THE DRAWINGS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDS AND CONFIRM COMPLETE EXTENT OF DEMOLITION REQUIRED.
2. MATERIALS AND EQUIPMENT TO BE SALVAGED OR REUSED SHALL BE IDENTIFIED BY THE OWNER. THESE ITEMS ARE THE PROPERTY OF THE OWNER AND SHALL BE RETURNED TO THE OWNERS DESIGNATED STORAGE AREA. WHERE REMOVAL IS REQUIRED THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARE TAKEN DURING THE HANDLING OF THESE ITEMS.
3. DEMOLISHED MATERIALS AND EQUIPMENT NOT BEING SALVAGED OR REUSED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.

5B GENERAL NOTES

1. THIS IS A GENERAL LIST OF ABBREVIATIONS AND SYMBOLS ON THIS SHEET. SOME ABBREVIATIONS AND SYMBOLS MAY NOT BE APPLICABLE TO THIS PROJECT.
2. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY NOT SHOW EXACT ROUTING OR ALL REQUIRED OFFSETS, ACCESSORIES OR APPURTENANCES. CONTRACTOR SHALL PROVIDE AS REQUIRED TO INSTALL A COMPLETE AND COORDINATED JOB, INCLUDING ANY ADDITIONAL ITEMS REQUIRED TO MEET ACTUAL FIELD CONDITIONS AND EQUIPMENT SELECTED.
3. FIRE PROTECTION CONTRACTOR SHALL COORDINATE LOCATION OF ALL SPRINKLER HEADS AND PIPING WITH STRUCTURAL ELEMENTS, MECHANICAL, PLUMBING, ELECTRICAL EQUIPMENT AND CEILING CONFIGURATION INDICATED ON DRAWINGS. WHERE NECESSARY SPRINKLER CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLERS TO ASSURE REQUIRED DISCHARGE PATTERNS AROUND OBTRUCTIONS AND DIFFERENT CEILING ELEVATIONS TO YIELD A PROPER DENSITY (gpm / sq. ft.) FOR THE DESIGNED HAZARD.
4. ALL PIPING, FITTINGS AND JOINTS IN SPRINKLER AND STANDPIPE SYSTEMS SHALL CONFORM TO NFPA 13 & 14, NON-METALLIC PIPE AND FITTINGS ARE UNACCEPTABLE.
5. ALL VALVES SHALL BE READILY ACCESSIBLE FROM A SAFE HEIGHT AND TO BE CLEAR OF ALL OBSTRUCTIONS AND THEIR OPERATION SHALL NOT BE ENCUMBERED BY ANY DEVICE OR EQUIPMENT.
6. INSTALL ALL OVERHEAD HANGERS AND SUPPORTS PRIOR TO SPRAY FIREPROOFING OR DRYWALL CEILING.
7. DO NOT SUPPORT SPRINKLER PIPING FROM METAL DECK.
8. PROTECT ELEVATOR MACHINE ROOMS AND ELEVATOR SHAFTS.
9. SPRINKLER PIPING IS TO BE BRACED AND RESTRAINED (BRANCH LINES) IN ACCORDANCE WITH NFPA 13 FOR SEISMIC REQUIREMENTS.
10. EXTENDED COVERAGE SPRINKLERS WILL BE ACCEPTABLE.
11. THE ENTIRE NEW ADDITION SHALL BE COMPLETELY SPRINKLERED WITH A WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 FOR LIGHT HAZARD OCCUPANCY.
12. SPRINKLER SYSTEM SHALL BE ZONED AS SHOWN ON DRAWINGS.
13. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR SPRINKLER HEAD LOCATIONS.
14. THE SPACE ABOVE THE CEILING IS LIMITED AND THE INSTALLATION OF WORK WILL BE TIGHT. DUE TO THIS, IT IS IMPORTANT THAT THE TRADE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THEIR WORK WITH THE CEILING SYSTEM HEIGHT AND CONSTRUCTION OFTHE STRUCTURAL SYSTEM, THE LIGHTING FIXTURES, THE SPRINKLER HEADS/MAINS AND THE PLUMBING PIPES. ROUTE PIPING AS HIGH AS POSSIBLE. MAINTAIN PROPER SERVICE ACCESS CLEARANCES. ACCURATE SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FIELD INSTALLATION.
15. ALL SPRINKLERS SHALL BE FM-APPROVED QUICK RESPONSE SPRINKLERS EXCEPT WHERE PROHIBITED BY NFPA 13.
16. HYDRAULIC CALCULATIONS REQUIRE A 10-PERCENT SAFETY FACTOR.

7A SYMBOLS

- FP — FIRE PROTECTION PIPING (FP)
- EX. FP — FIRE PROTECTION PIPING (FP) EXISTING
- FIRE PROTECTION PIPING (FP) DEMO
- DIRECTION OF FLOW
- PIPE ANCHOR
- UNION
- VALVE
- OS&Y VALVE
- CHECK VALVE (SHOWN W/FLOW)
- PIV — POST INDICATOR VALVE
- DPV — DRY PIPE VALVE
- SOLENOID VALVE
- CONTROL VALVE
- D — DELUGE VALVE
- CONCEALED SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- PENDENT SPRINKLER HEAD
- SEMI RECESSED SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- PENDENT ON/OFF SPRINKLER HEAD
- SECURITY PENDENT SPRINKLER HEAD
- BACKFLOW PREVENTER (BFP)
- S — BOTTOM DROP
- ELBOW DOWN
- ELBOW UP
- CAPPED PIPING
- PUMP (SCHEMATIC)
- FDV — FIRE DEPARTMENT VALVE
- FHC — FIRE HOSE CABINET
- FIRE DEPARTMENT HOSE VALVE
- FDC — FIRE DEPARTMENT CONNECTION
- FREE-STANDING FIRE DEPARTMENT CONNECTION
- FPT — FLUSH FIRE PUMP TEST HEADER
- FREE-STANDING FIRE PUMP TEST HEADER
- FLOW SWITCH
- PRESSURE SWITCH
- UV — ULTRA VIOLET DETECTOR
- I — IONIZATION DETECTOR (SMOKE)
- R — RATE OF RISE DETECTOR
- PHOTOELECTRIC DETECTOR
- [P] — MANUAL PULL STATION
- HORN
- HORN W/ STROBE LIGHT
- [A] — ABORT SWITCH (DEADMAN TYPE)
- ROTATING BEACON
- CP — CONTROL PANEL
- [FSA] — FIRE STATUS ANNUNCIATOR
- [D] — HEAT DETECTOR
- CEILING CLEAN AGENT NOZZLE
- U — SUB-FLOOR CLEAN AGENT NOZZLE
- WARNING LIGHT
- T — CLEAN AGENT STORAGE TANK
- [VLC] — LASER COMPACT
- [VLP] — LASER PLUS
- [VLS] — LASER SCANNER
- [VPS] — POWER SUPPLY
- [VRD] — REMOTE DISPLAY
- AIR SAMPLING NOZZLE
- AIR SAMPLING PORT
- POINT OF CONNECTION (NEW TO EXISTING)
- POINT OF CONNECTION (NEW TO EXISTING)
- FP / 1 — RISER INDICATOR / DETAIL NO.
  TOP INDICATES TYPE OF RISER / DETAIL NO.
  BOTTOM INDICATES RISER NUMBER / DWG NO.
- FP / 1 — RISER INDICATOR -
  TOP INDICATES TYPE OF RISER,
  BOTTOM INDICATES RISER NUMBER
  (ARROW INDICATES DIRECTIONAL VIEW OF ISOMETRIC RISERS)
- 1 / F101 — SECTION INDICATOR
  TOP INDICATES SECTION NUMBER
  BOTTOM INDICATES DRAWING NUMBER
- X — KEYED NOTE TAG
- XX — NEW EQUIPMENT TAG
- (E)XXX — EXISTING EQUIPMENT TAG
- EXISTING
- AREA MATCHLINE

8A ABBREVIATIONS

AC	AIR COMPRESSOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
ARCH	ARCHITECTURE
ASSY	ASSEMBLY
ATM	ARMOSPHERE
AUTO	AUTOMATIC
AUX	AUXILLARY
BOB	BOTTOM OF BEAM
BOP	BOTTOM OF PIPE
CA	COMPRESSED AIR OR CLEAN AGENT
CALCS	CALCULATIONS
CAP	CAPACITY
CC	CEILING COLUMN
CCD	CHICAGO CITY DATUM
CLG	CEILING
cm	CENTIMETER
CO2	CARBON DIOXIDE
COL	COLUMN
CONC	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUED
CSP	COMBINED STANDPIPE/SPRINKLER SYSTEM
CV	CHECK VALVE
DCV	DOUBLE CHECK VALVE
DDCV	DOUBLE DETECTOR CHECK VALVE
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DRAIN
DPV	DRY PIPE VALVE
DV	DRAIN VALVE
DWG	DRAWING
EA	EACH
ELEV.	ELEVATION
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EX	EXISTING
EXIST	EXISTING
EXP	EXPANSION
F	FARENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FD1,2,3...	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISHED
FH	FIRE HOSE
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FLR	FLOOR
FP	FIRE PROTECTION
FPC	FIRE PUMP CONTROLLER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPTC	FIRE PUMP TEST CONNECTION
FS	FLOW SWITCH
FT	FEET
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
IN	INCHES
ITC	INSPECTORS TEST CONNECTION
MD	MAIN DRAIN
N&C	NIPPLE AND CAP
NA	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO.	NUMBER
N.O.	NORMALLY OPEN
NS	NOT SPRINKLERED
NTS	NOT TO SCALE
OSW	OPEN SITE WASTE
OS&Y	OUTSIDE SCREW AND YOKE
P	PUMP
PG	PRESSURE GAUGE
PIV	POST INDICATOR VALVE
PKG	PACKAGE
POC	POINT OF CONNECTION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RN	RISER NIPPLE
RPM	REVOLUTIONS PER MINUTE
SCV	SECTIONAL CONTROL VALVE W/ TAMPER SWITCH
SP	STANDPIPE
SPKR	SPRINKLER
SUB-CONTR.	SUB CONTRACTOR
SYS	SYSTEM
TB	THRUST BLOCK
TEMP	TEMPERATURE
TH	THERMOMETER
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS OTHERWISE NOTED
VEL	VELOCITY
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WIP	WALL INDICATOR POST

CONSTRUCTION DOCUMENTS - FINAL BID DOCUMENTS

Revisions: | Date

CONSULTANTS:

Landmark Engineering Group, Inc.
Civil Engineer
2834 104th Street
Urbandale, IA 50322
515.221.1322

SidePlate
Steel Frame
25909 Pala, Ste 200, 92691
Mission Viejo, CA
949.305.7889

Gateway Geotechnical, LLC
Geotechnical Engineer
17736 Edison Avenue
Chesterfield, MO 63005
636.532.7747

SWT Design
Landscape Architect
7722 Big Bend Boulevard
St. Louis, MO 63119
314.644.5700

Hinman Consulting Engineers, Inc
Physical Security
One Bush Street, Suite 510
San Francisco, CA 94104
415.621.4423

The Schachinger Group
Elevator
4255 Stoney Creek Drive
Fort Collins, CO 80525
703.608.2263

ARCHITECT/ENGINEERS:

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

Drawing Title: **FIRE SUPPRESSION - ABBREVIATIONS AND SYMBOLS**

Approved: Project Director

Project Title: **John J. Pershing VAMC Clinical & Urgent Care Addition**

Location: **Poplar Bluff, Missouri**

Date: **DEC 14, 2015** | Checked: **JJS** | Drawn: **RJL**

Project Number: **657-351** (CANNON DESIGN PROJECT NO. 03850.05)

Building Number

Drawing Number: **FX-001**

Dwg. of

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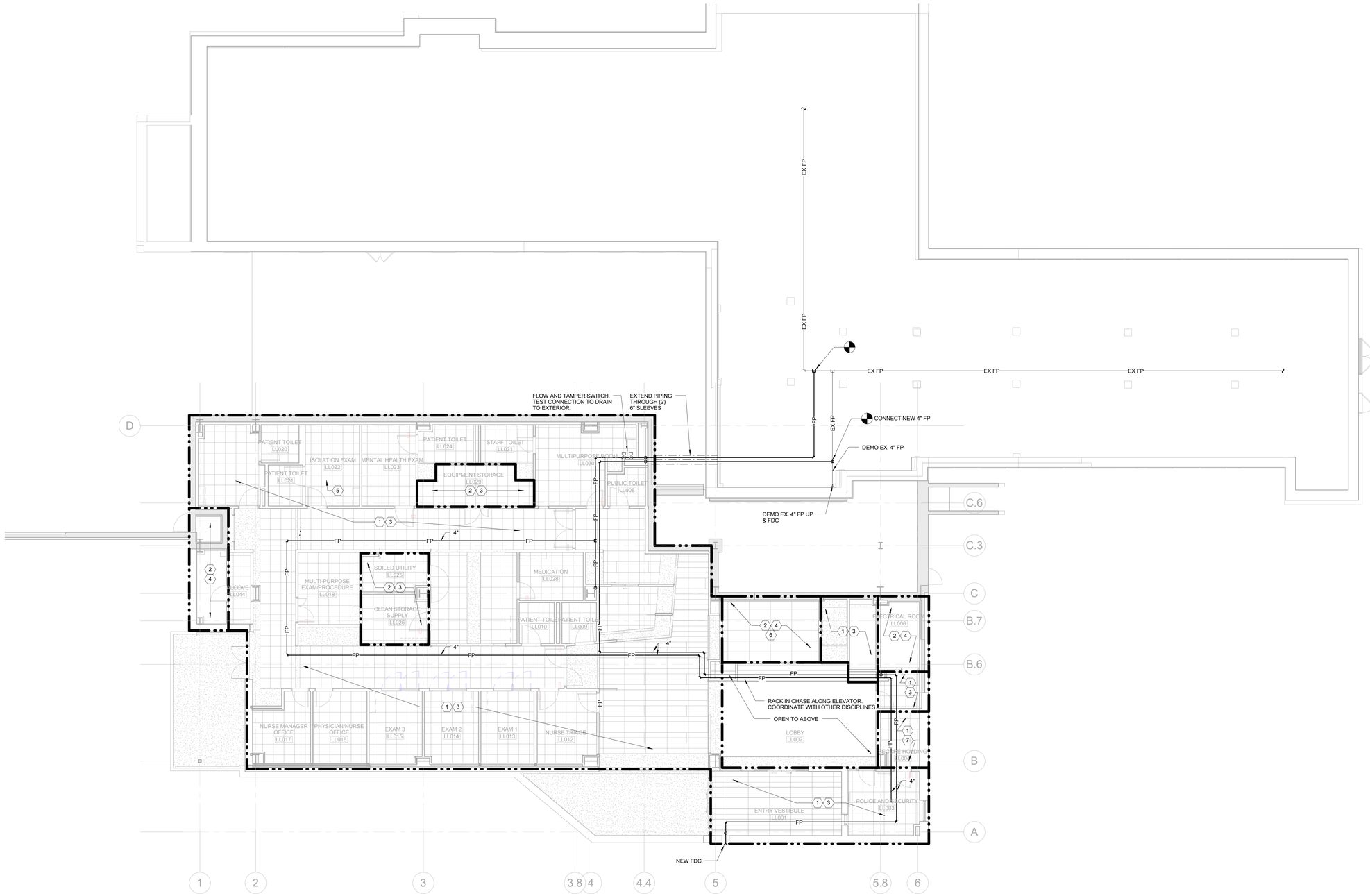
Department of Veterans Affairs

VA FORM 08-6231



3F LOWER LEVEL FIRE SUPPRESSION PLAN
1/8" = 1'-0"

KEYED NOTES

1. LIGHT HAZARD OCCUPANCY: SPRINKLER DENSITY EQUAL TO 0.10 GPM/SF OVER THE MOST REMOTE 1500 SQ. FT. HOSE STREAM ALLOWANCE 100 GPM.
2. ORDINARY HAZARD - GROUP 1: SPRINKLER DENSITY EQUAL TO 0.15 GPM/SF OVER THE MOST REMOTE 1500 SQ. FT. HOSE STREAM ALLOWANCE 250 GPM.
3. SEMI-RECESSED SPRINKLER HEAD. SEE DETAIL 5F ON FX-601 FOR ADDITIONAL INFORMATION.
4. UPRIGHT SPRINKLER HEAD. SEE DETAIL 4F ON FX-601 FOR ADDITIONAL INFORMATION.
5. REFER TO SPRINKLER LAYOUT DETAIL 2F ON FX-601 (TYP).
6. ELEVATOR PITS AND AND MACHINE ROOMS SHALL BE SPRINKLED AND SHUNT TRIPPED.
7. PROVIDE ANTI-LIGATURE SPRINKLER HEAD IN THIS AREA.

N

CONSTRUCTION DOCUMENTS - FINAL BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

Landmark Engineering Group, Inc.
Civil Engineer
2834 104th Street
Urbandale, IA 50322
515.221.1322

SidePlate
Steel Frame
25909 Pala, Ste 200, 92691
Mission Viejo, CA
949.305.7889

Gateway Geotechnical, LLC
Geotechnical Engineer
17736 Edison Avenue
Chesterfield, MO 63005
636.532.7747

SWT Design
Landscape Architect
7722 Big Bend Boulevard
St. Louis, MO 63119
314.644.5700

Hinman Consulting Engineers, Inc
Physical Security
One Bush Street, Suite 510
San Francisco, CA 94104
415.621.4423

The Schachinger Group
Elevator
4255 Stoney Creek Drive
Fort Collins, CO 80525
703.608.2263

ARCHITECT/ENGINEERS:

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

Drawing Title: **FIRE SUPPRESSION LOWER LEVEL PLAN**

Approved: Project Director

Project Title: **John J. Pershing VAMC Clinical & Urgent Care Addition**

Location: **Poplar Bluff, Missouri**

Date: **DEC 14, 2015** | Checked: **JJS** | Drawn: **RJL**

Project Number: **657-351**
CANNON DESIGN PROJECT NO. 03850.05

Building Number

Drawing Number: **FX-101**
Dwg. of

Office of Construction and Facilities Management

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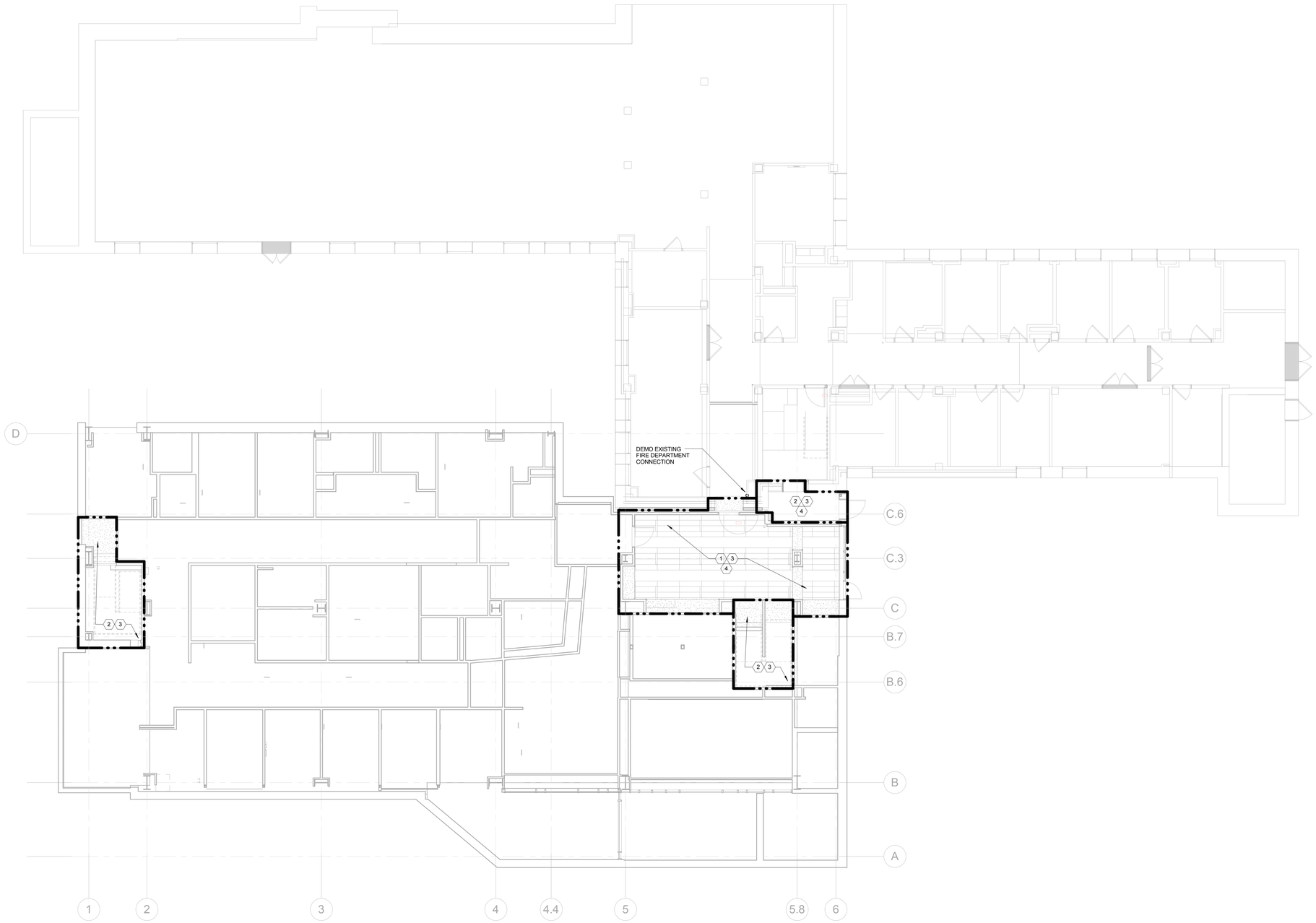
VA FORM 08-6231



KEYED NOTES

1. LIGHT HAZARD OCCUPANCY: SPRINKLER DENSITY EQUAL TO 0.10 GPM/SF OVER THE MOST REMOTE 1500 SQ. FT. HOSE STREAM ALLOWANCE: 100 GPM.
2. ORDINARY HAZARD - GROUP 1: SPRINKLER DENSITY EQUAL TO 0.15 GPM/SF OVER THE MOST REMOTE 1500 SQ. FT. HOSE STREAM ALLOWANCE 250 GPM.
3. SEMI-RECESSED SPRINKLER HEAD. SEE DETAIL 5F ON FX-601 FOR ADDITIONAL INFORMATION.
4. SPRINKLER SYSTEM FOR THIS FLOOR SHALL BE CONTINUED FROM EXISTING SYSTEM. ALL SHUTDOWNS SHALL BE COORDINATED WITH OWNER PRIOR TO START OF WORK.

N

3F GROUND LEVEL FIRE SUPPRESSION PLAN
1/8" = 1'-0"

CONSTRUCTION DOCUMENTS - FINAL BID DOCUMENTS

Revisions: | Date

CONSULTANTS:

Landmark Engineering Group, Inc.
Civil Engineer
2834 104th Street
Urbandale, IA 50322
515.221.1322

SidePlate
Steel Frame
25909 Pala, Ste 200, 92691
Mission Viejo, CA
949.305.7889

Gateway Geotechnical, LLC
Geotechnical Engineer
17736 Edison Avenue
Chesterfield, MO 63005
636.532.7747

SWT Design
Landscape Architect
7722 Big Bend Boulevard
St. Louis, MO 63119
314.644.5700

Hinman Consulting Engineers, Inc
Physical Security
One Bush Street, Suite 510
San Francisco, CA 94104
415.621.4423

The Schachinger Group
Elevator
4255 Stoney Creek Drive
Fort Collins, CO 80525
703.608.2263

ARCHITECT/ENGINEERS:

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

Drawing Title: **FIRE SUPPRESSION GROUND LEVEL PLAN**

Approved: Project Director

Project Title: **John J. Pershing VAMC Clinical & Urgent Care Addition**

Location: **Poplar Bluff, Missouri**

Date: **DEC 14, 2015** | Checked: **JJS** | Drawn: **RJL**

Project Number: **657-351**
CANNON DESIGN PROJECT NO. 03850.05

Building Number

Drawing Number: **FX-102**
Dwg. of

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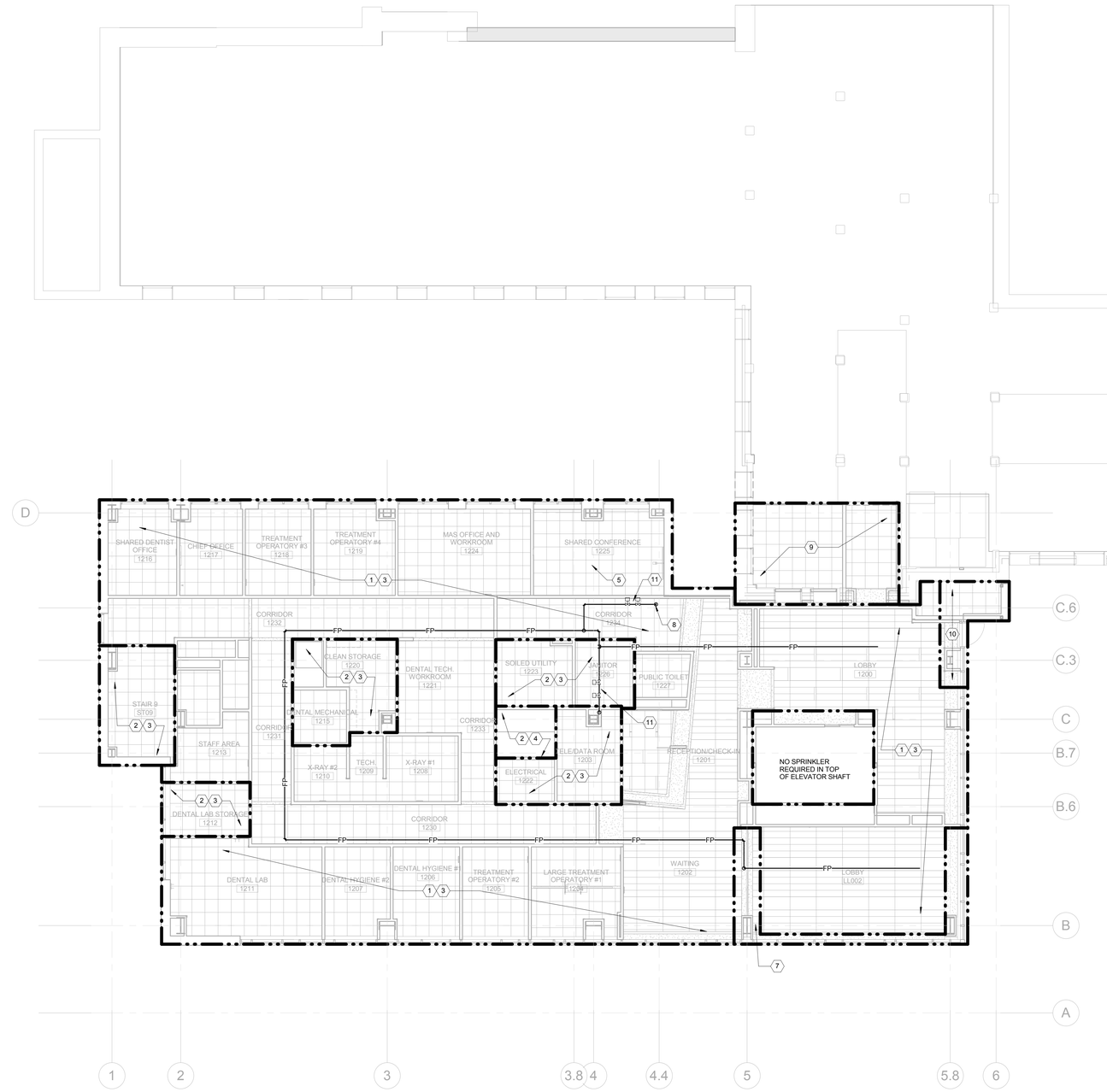
Department of Veterans Affairs

VA FORM 08-6231



KEYED NOTES

1. LIGHT HAZARD OCCUPANCY: SPRINKLER DENSITY EQUAL TO 0.10 GPM/SF OVER THE MOST REMOTE 1500 SQ. FT. HOSE STREAM ALLOWANCE 100 GPM.
2. ORDINARY HAZARD - GROUP 1: SPRINKLER DENSITY EQUAL TO 0.15 GPM/SF OVER THE MOST REMOTE 1500 SQ. FT. HOSE STREAM ALLOWANCE 250 GPM.
3. SEMI-RECESSED SPRINKLER HEAD. SEE DETAIL 5F ON FX-601 FOR ADDITIONAL INFORMATION.
4. UPRIGHT SPRINKLER HEAD. SEE DETAIL 4F ON FX-601 FOR ADDITIONAL INFORMATION.
5. REFER TO SPRINKLER LAYOUT DETAIL 2F ON FX-601 (TYP).
6. ELEVATOR SHAFTS AND MACHINE ROOMS SHALL BE SPRINKLED AND SHUNT TRIPPED.
7. PROVIDE SPRINKLER SPACING ON BOTH SIDES OF GLASS IN THIS AREA FOR 1HR RATED WATER CURTAIN.
8. 3" FP UP TO PENTHOUSE. IN EVENT OF FIRE IF TWO ALARMS REGISTER THE FIRE DEPARTMENT SHALL KNOW TO GO TO PENTHOUSE.
9. MODIFY EXISTING SPRINKLER LAYOUT TO ACCOMMODATE NEW CEILING LAYOUT.
10. PROVIDE 1HR WATER CURTAIN ON WINDOWS IN THIS AREA.
11. FLOW AND TAMPER SWITCH. TEST CONNECTION TO DRAIN TO MOP SINK.

N

3F LEVEL 01 FIRE SUPPRESSION PLAN
1/8" = 1'-0"

CONSTRUCTION DOCUMENTS - FINAL BID DOCUMENTS

Revisions: | Date

CONSULTANTS:

Landmark Engineering Group, Inc.
Civil Engineer
2834 104th Street
Urbandale, IA 50322
515.221.1322

SidePlate
Steel Frame
25909 Pala, Ste 200, 92691
Mission Viejo, CA
949.305.7889

Gateway Geotechnical, LLC
Geotechnical Engineer
17736 Edison Avenue
Chesterfield, MO 63005
636.532.7747

SWT Design
Landscape Architect
7722 Big Bend Boulevard
St. Louis, MO 63119
314.644.5700

Hinman Consulting Engineers, Inc
Physical Security
One Bush Street, Suite 510
San Francisco, CA 94104
415.621.4423

The Schachinger Group
Elevator
4255 Stoney Creek Drive
Fort Collins, CO 80525
703.608.2263

ARCHITECT/ENGINEERS:

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

Drawing Title: **FIRE SUPPRESSION PLAN LEVEL 01**

Approved: Project Director

Project Title: **John J. Pershing VAMC Clinical & Urgent Care Addition**

Location: **Poplar Bluff, Missouri**

Date: **DEC 14, 2015** | Checked: **JJS** | Drawn: **RJL**

Project Number: **657-351**
CANNON DESIGN PROJECT NO. 03850.05

Building Number

Drawing Number: **FX-103**
Dwg. of

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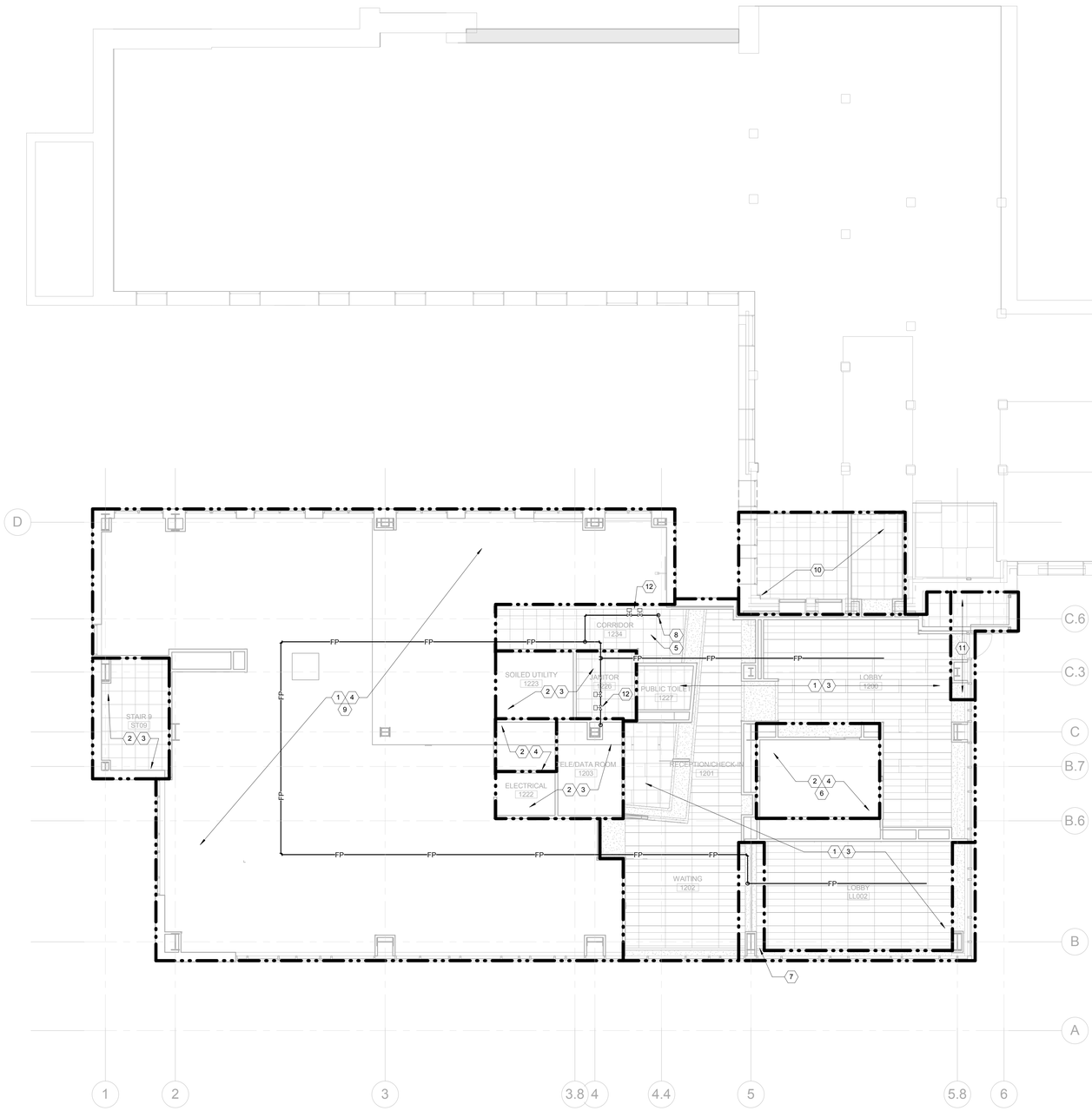

3F LEVEL 01 FIRE SUPPRESSION PLAN - BID ALTERNATE 1
1/8" = 1'-0"

KEYED NOTES

1. LIGHT HAZARD OCCUPANCY: SPRINKLER DENSITY EQUAL TO 0.10 GPM/SF OVER THE MOST REMOTE 1500 SQ. FT. HOSE STREAM ALLOWANCE 100 GPM.
2. ORDINARY HAZARD - GROUP 1: SPRINKLER DENSITY EQUAL TO 0.15 GPM/SF OVER THE MOST REMOTE 1500 SQ. FT. HOSE STREAM ALLOWANCE 250 GPM.
3. SEMI-RECESSED SPRINKLER HEAD. SEE DETAIL 5F ON FX-601 FOR ADDITIONAL INFORMATION.
4. UPRIGHT SPRINKLER HEAD. SEE DETAIL 4F ON FX-601 FOR ADDITIONAL INFORMATION.
5. REFER TO SPRINKLER LAYOUT DETAIL 2F ON FX-601 (TYP).
6. ELEVATOR SHAFTS AND MACHINE ROOMS SHALL BE SPRINKLED AND SHUNT TRIPPED.
7. PROVIDE SPRINKLER SPACING ON BOTH SIDES OF GLASS IN THIS AREA FOR 1HR RATED WATER CURTAIN.
8. 3" FP UP TO PENTHOUSE. IN EVENT OF FIRE IF TWO ALARMS REGISTER THE FIRE DEPARTMENT SHALL KNOW TO GO TO PENTHOUSE.
9. DESIGN A SPRINKLER LAYOUT THAT WILL PROVIDE FLEXIBILTY FOR FUTURE BUILD SO THE SYSTEM CAN BE MANIPULATED TO FOLLOW NFPA CODES AND LIMIT DEMO IN THIS AREA.
10. MODIFY EXISTING SPRINKLER LAYOUT TO ACCOMMODATE NEW CEILING LAYOUT.
11. PROVIDE 1HR WATER CURTAIN ON WINDOWS IN THIS AREA.
12. FLOW AND TAMPER SWITCH. TEST CONNECTION TO DRAIN TO MOP SINK.

N

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Revisions: | Date

CONSULTANTS:

Landmark Engineering Group, Inc.
Civil Engineer
2834 104th Street
Urbandale, IA 50322
515.221.1322

Gateway Geotechnical, LLC
Geotechnical Engineer
17736 Edison Avenue
Chesterfield, MO 63005
636.532.7747

SWT Design
Landscape Architect
7722 Big Bend Boulevard
St. Louis, MO 63119
314.644.5700

Hinman Consulting Engineers, Inc
Physical Security
One Bush Street, Suite 510
San Francisco, CA 94104
415.621.4423

The Schachinger Group
Elevator
4255 Stoney Creek Drive
Fort Collins, CO 80525
703.608.2263

SidePlate
Steel Frame
25909 Pala, Ste 200, 92691
Mission Viejo, CA
949.305.7889

ARCHITECT/ENGINEERS:

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.8250
F: 314.241.2570

Drawing Title: **FIRE SUPPRESSION PLAN LEVEL 01 - BID ALTERNATE 1**

Approved: Project Director

Project Title: **John J. Pershing VAMC Clinical & Urgent Care Addition**

Location: **Poplar Bluff, Missouri**

Date: **DEC 14, 2015** | Checked: **JJS** | Drawn: **Author**

Project Number: **657-351**
CANNON DESIGN PROJECT NO. 03850.05

Building Number

Drawing Number: **FX-103A**
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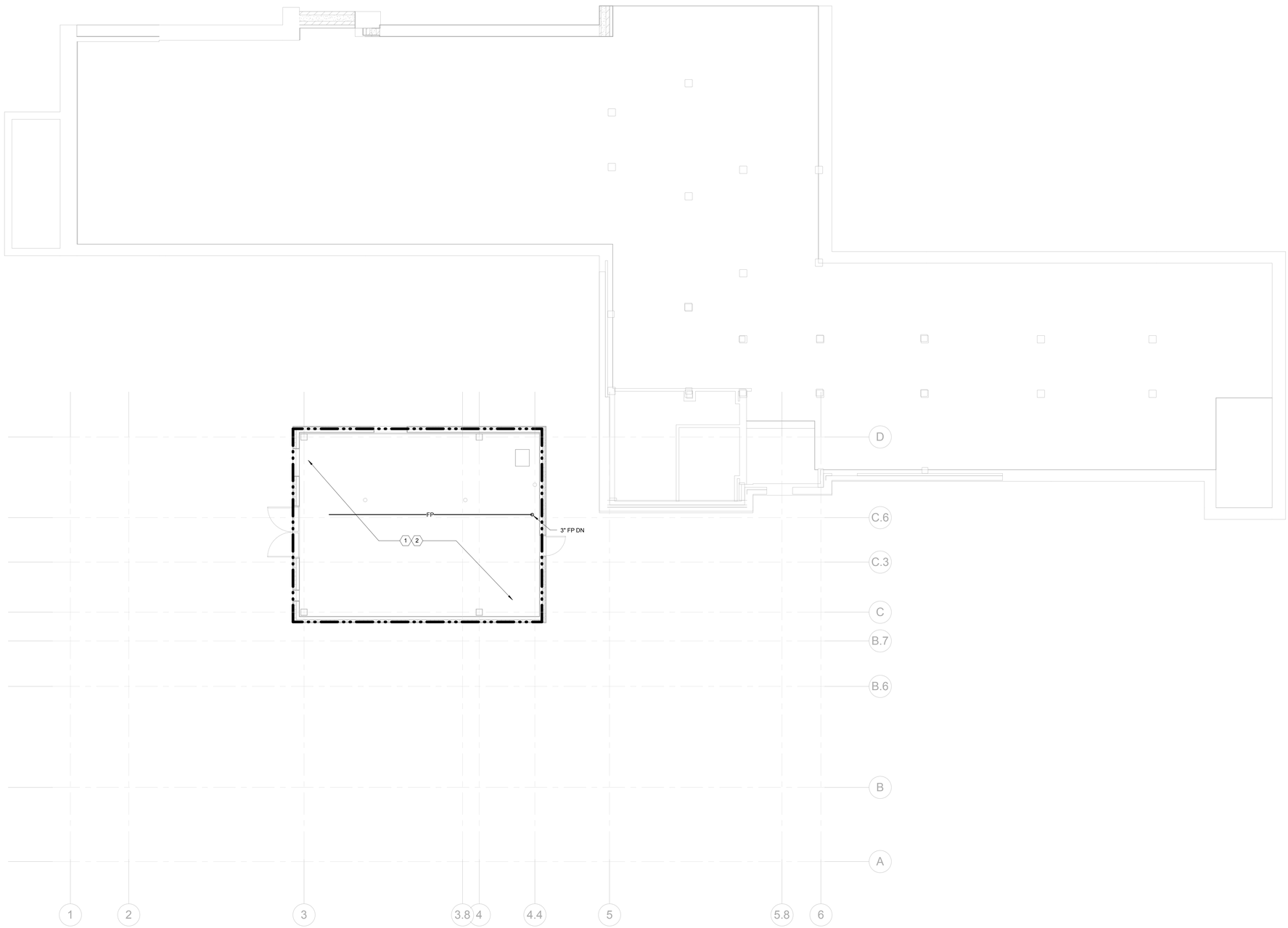

KEYED NOTES

1. ORDINARY HAZARD - GROUP 1: SPRINKLER DENSITY EQUAL TO 0.15 GPM/SF OVER THE MOST REMOTE 1500 SQ. FT. HOSE STREAM ALLOWANCE 250 GPM.
2. UPRIGHT SPRINKLER HEAD. SEE DETAIL 4F ON FX-601 FOR ADDITIONAL INFORMATION.

N

3F PENTHOUSE LEVEL FIRE SUPPRESSION PLAN
1/8" = 1'-0"

CONSTRUCTION DOCUMENTS - FINAL BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

Landmark Engineering Group, Inc.
Civil Engineer
2834 104th Street
Urbandale, IA 50322
515.221.1322

Gateway Geotechnical, LLC
Geotechnical Engineer
17736 Edison Avenue
Chesterfield, MO 63005
636.532.7747

SWT Design
Landscape Architect
7722 Big Bend Boulevard
St. Louis, MO 63119
314.644.5700

Hinman Consulting Engineers, Inc
Physical Security
One Bush Street, Suite 510
San Francisco, CA 94104
415.621.4423

The Schachinger Group
Elevator
4255 Stoney Creek Drive
Fort Collins, CO 80525
703.608.2263

SidePlate
Steel Frame
25909 Pala, Ste 200, 92691
Mission Viejo, CA
949.305.7889

ARCHITECT/ENGINEERS:

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.8250
F: 314.241.2570

Drawing Title: **FIRE SUPPRESSION PENTHOUSE PLAN**

Approved: Project Director

Project Title: **John J. Pershing VAMC Clinical & Urgent Care Addition**

Location: **Poplar Bluff, Missouri**

Date: **DEC 14, 2015** | Checked: **JJS** | Drawn: **RJL**

Project Number: **657-351**
CANNON DESIGN PROJECT NO. 03850.05

Building Number

Drawing Number: **FX-104**
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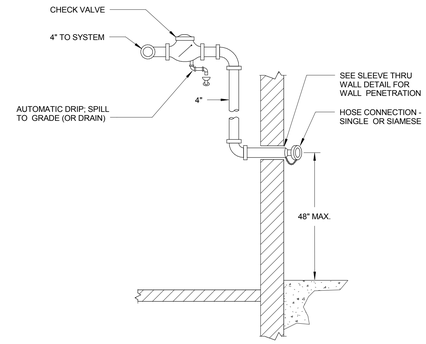
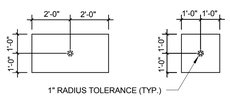
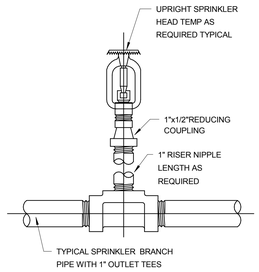


8D FIRE DEPARTMENT CONNECTION
NOT TO SCALE

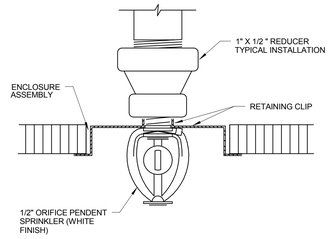


NOTE:
SPRINKLERS SHALL BE POSITIONED AS SHOWN WITH A 3" TOLERANCE. HOWEVER, SHOULD ANY PART OF THE TOLERANCE BE USED, THEN ALL THE SPRINKLERS IN THE ROW SHALL BE OFFSET BY THE SAME DISTANCE IN THE SAME DIRECTION.

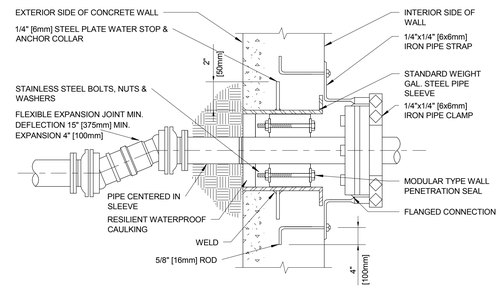
2F SPRINKLER LAYOUT
NOT TO SCALE



4F UPRIGHT SPRINKLER HEAD DETAIL
NOT TO SCALE



5F SEMI-RECCESSED SPRINKLER HEAD DETAIL
NOT TO SCALE



8F PIPE PENETRATION THROUGH WALLS BELOW GRADE
NTS

CONSTRUCTION DOCUMENTS - FINAL BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

Landmark Engineering Group, Inc.
Civil Engineer
2834 104th Street
Urbandale, IA 50322
515.221.1322

Gateway Geotechnical, LLC
Geotechnical Engineer
17736 Edison Avenue
Chesterfield, MO 63005
636.532.7747

SWT Design
Landscape Architect
7722 Big Bend Boulevard
St. Louis, MO 63119
314.644.5700

Hinman Consulting Engineers, Inc
Physical Security
One Bush Street, Suite 510
San Francisco, CA 94104
415.621.4423

The Schachinger Group
Elevator
4255 Stoney Creek Drive
Fort Collins, CO 80525
703.608.2263

SidePlate
Steel Frame
25909 Pala, Ste 200, 92691
Mission Viejo, CA
949.305.7889

ARCHITECT/ENGINEERS:

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

Drawing Title: **FIRE PROTECTION DETAILS**

Approved: Project Director

Project Title: **John J. Pershing VAMC Clinical & Urgent Care Addition**

Location: **Poplar Bluff, Missouri**

Date: **DEC 14, 2015** | Checked: **JJS** | Drawn: **RJL**

Project Number: **657-351**
CANNON DESIGN PROJECT NO. 03850.05

Building Number

Drawing Number: **FX-601**
Dwg. of

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231